

## Thermostable *Thermococcus kodakarensis* AMP Phosphorylase

Cat. No. CEGZ-6396

Lot. No. (See product label)

### Introduction

#### Description

A recombinant AMP phosphorylase corresponding to the *Thermococcus kodakarensis* deoA gene, supplied as an active inclusion-body preparation with high-temperature activity.

#### Applications

For research and in vitro studies of nucleoside monophosphate phosphorolysis and alpha-D-ribose 1,5-bisphosphate formation.

#### Synonyms

Tk-DeoA; AMPP; AMPpase; nucleoside monophosphate phosphorylase; AMP:phosphate alpha-D-ribosyl 5'-phosphate-transferase

### Product Information

#### Species

*Thermococcus kodakarensis*

#### Source

Recombinant *E. coli*

#### Form

Liquid

#### EC Number

EC 2.4.2.57

#### Molecular Weight

55.0 kDa (monomer)

#### Thermal stability

Thermostable up to at least 80°C; activity at 20-80°C

#### Specificity

AMP; also active toward CMP, UMP, and GMP

#### Substrates

AMP, CMP, UMP, or GMP; phosphate

#### Reaction

AMP + phosphate = adenine + alpha-D-ribose 1,5-bisphosphate  
CMP + phosphate = cytosine + alpha-D-ribose 1,5-bisphosphate  
UMP + phosphate = uracil + alpha-D-ribose 1,5-bisphosphate

#### Notes

Supplied as active inclusion bodies. Recombinant protein produced in *E. coli* and purified by inclusion-body purification.

#### Usage

Research and in vitro use only.

### Storage and Shipping Information

#### Storage

4°C